



Massachusetts Department of Environmental Protection
Bureau of Resource Protection – Watershed Permitting Program
Sanitary Sewer Overflow (SSO)/Bypass
Notification Form

FOR DEP USE ONLY

Tax Identification Number

A. Reporting Facility

1. Facility Information

Hull, MA WPCF

MA0101231

Reporting Sewer Authority

Permit #

2. Authorized Representative Transmitting Form:

Aram

Varjabedian

781-925-0906

First Name

Last Name

Telephone No.

Plant Manager

avarjabedian@woodardcurran.com

Title

E-mail Address

B. Phone Notifications:

1. MassDEP staff contacted:

Contacted By Phone

David

First Name

Burns

Last Name

Date/Time contacted:

08/27/2019 1:56PM

Contacted by:

2. EPA staff contacted:

Contacted by: Email

David

First Name

Turin

Last Name

Date/Time EPA contacted:

08/27/2019 4:54PM

3. Board of Health contacted:

Contacted by: Phone

Joyce

First Name

Sullivan

Last Name

Date/Time contacted:

08/27/2019 4:54PM

4. Director of WW Operations

Contacted by: Phone

John

First Name

Struzziery

Last Name

Date/Time contacted:

08/24/2019 9:00AM

4. Others notified:

Harbormaster / Shelfish Warden - Kurt Bornheim, Division of Marine Fisheries - Ryan
Joyce, Hull Conservation Agent - Chris Krahforst, DPW Director - Jim Dow, Town
Manager - Philip Lemnios

Contacted by: Email 08/27/2019 4:54PM

Comments



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C. SSO Information

1. SSO Discovered:

By: Hull Plant Staff

Date and Time 08/26/2019 1:00PM

Confirmed sewage - odors detected & shut pump station off for 2 hours to monitor rate of l
with pumps off, and compared to rate of leakage when pumps were running.

2. SSO Stopped Date and Time

08/28/2019 09:00AM

3. SSO Discharge from:

Pump Station

Sanitary Manhole, Pump Station, Backup into property, Other - Specify Below

Specify: 8-inch force main was rotted very close to pump station building. Sewage was leaking back into building pump room,
and the sump pump was pumping this liquid back I to the wetwell.

4. SSO Discharge to:

Backup into Property Basement (pump station pump room).

Ground Surface, Direct to Receiving Water, Catch Basin to Receiving Water, Backup into Basement

Specify:

Location:

157 Atlantic Avenue, Hull Ma. Our listing indicates #157, but Google Maps indicated #148

(Description of discharge site or closest address)

X,Y Coordinates **LAT = +42.266995; LONG = -70.838602**

5. Estimated SSO Volume at time of this Report:

Less than 100 gallons at time of excavation

Method of Estimating Volume:

Visual

Other Method: Prior to 8/28/19 - undetermined

6. Cause of SSO Event:

Pump Station Failure, Other - Specify Below

Rain Event, PS Failure, Insufficient Capacity in System, Treatment Unit failure, Sewer System Blockage, Pipe Collapse, Root Intrusion, Grease Blockage, Other

Specify: 8" ductile iron force main pipe corroded and leaking back into pump station.

7. Corrective Actions :

Plant staff saw very small leak as early as Thursday 8/22 but unconfirmed source through 8/25. Monitored
pump station daily [several times] and surrounding area with no break out seen. The Force main was shut
down. while emergency repairs made by Aqualine Utility on Wed 8/28. A new 12 foot HDPE pipe section was

Impact Area cleaned and/or disinfected:

Yes

Corrective Actions Completed:

Yes

Details:

Leak contained in the immediate trench, and previous leakage entered pump room and captured and then
pumped into the wet well.



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D. Comments/Attachments/Follow-up

Additional comments and
planned actions:

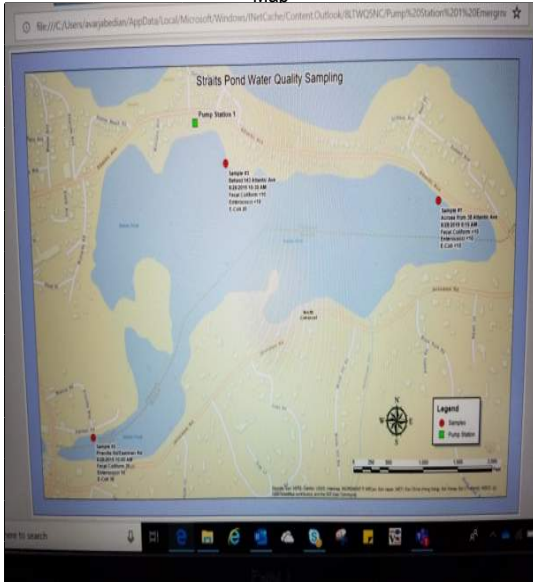
See attached pictures, Supplemental "Unauthorized Discharge Summary" and maps of area. Sampling results
noted on the map of Straits Pond.

I wish to provide the following:

Attachement,Additional Comments

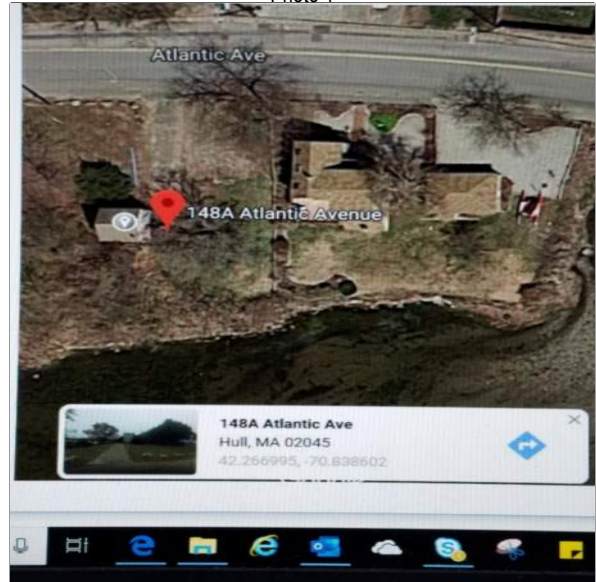
Attachement, Additional Comments, No Additional Comments or Attachements

Map



Map of Straits pond and sampling locations

Photo 1



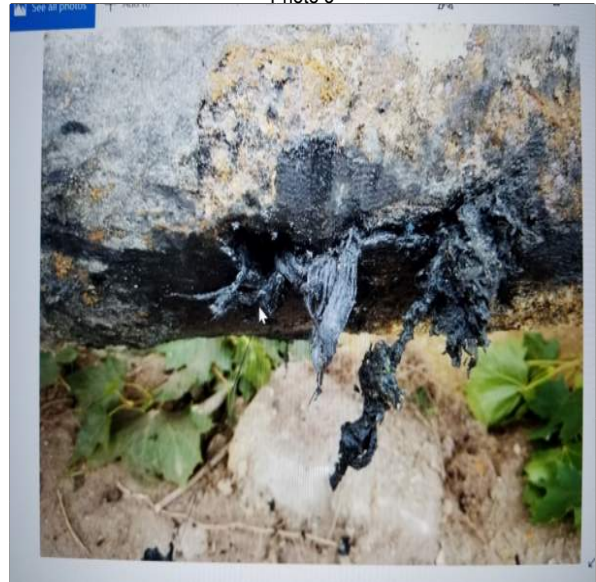
Pump Station #1

Photo 2



Initial trench excavation at PS1

Photo 3



Corroded pipe segment



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E. Certification Statement

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Arum Vaizhedian

Signature of Authorized Representative

8/31/2019

Date Signed

Please keep a copy of this report for your records. When submitting additional information, include the MassDEP Incident Number from

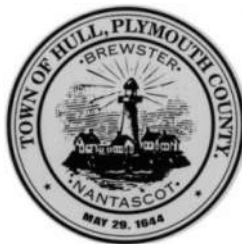
MassDEP Regional Office and EPA Telephone and Fax Numbers:

Northeast Phone: 978-694-3215
Southeast Phone: 508-946-2750
Central Re Phone: 508-792-7650
Western R Phone: 413-784-1100
EPA Cont: Phone: 617-918-1870
DEP 24-hr Phone: 888-304-1133

Fax: 978-694-3499
Fax: 508-947-6557
Fax: 508-792-7621
Fax: 413-784-1149
Fax: 617-918-0870

Town of Hull Wastewater Treatment Plant

1111 Nantasket Avenue
Hull, MA 02045
(781) 925-1207

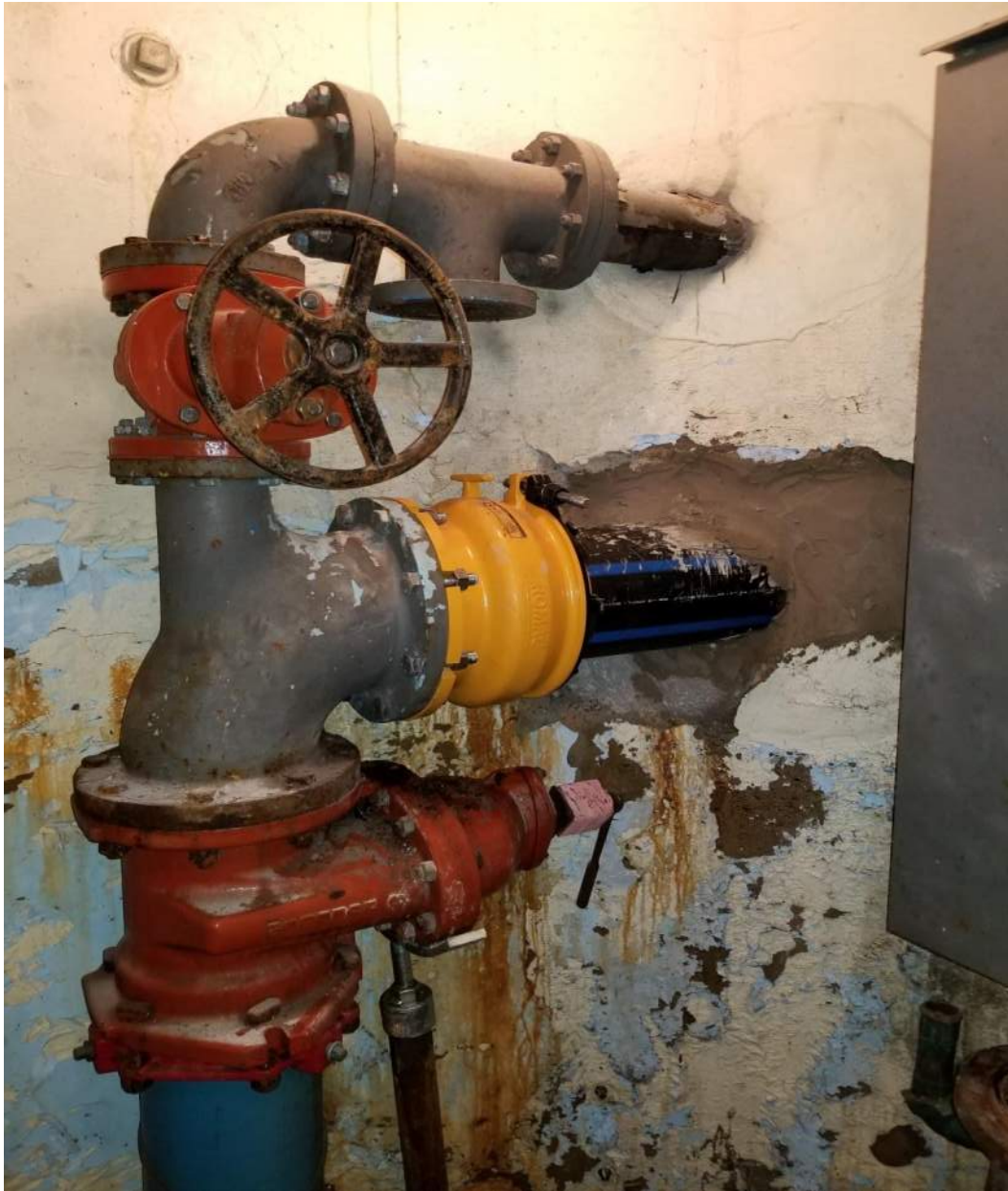


NPDES Permit #
MA0101231

Unauthorized Discharge Summary 148 Atlantic Ave. Pump Station #1 [08-26-19]

Location (address or latitude and longitude);	<i>Lat: +42.266995; Long: -70.838602</i>
Date and Time unauthorized discharge began;	<i>Suspect that the sewage leak may have started as early as 8/22/19, and the volume seen leaking inside the pump station was negligible. On 8/24/19 the leakage volume had increased, but source still undetermined at that time. On 8/25-8/26 the leakage continued into the pump station structure. All liquids pumped back into the wet well.</i>
Date and Time unauthorized discharge stopped;	<i>8/28/19 at 9:00 am. When the pump station was shut down so that emergency repairs could be made. The force main was drained back into the wet well and pumper trucks maintained the station while piping repairs were made. The repairs took approximately 7 hours to complete.</i>
Source of the notification (e.g., property owner, field crew, police);	<i>Wastewater Plant Staff</i>
Type of asset from which the unauthorized discharge occurred (e.g., station, manhole, main);	<i>Pump Station force main pipe at Pump Station #1. Corroded pipe segment approximately 3 feet away from the pump room.</i>
Estimated gallons released;	<i>Less than 100 gallons on day of excavation 8/28/19, liquid contained within the trench. Undetermined for period 8/22-8/28, but leakage was into the pump station building.</i>
Method used to estimate volume;	<i>Visual</i>
Cause of the unauthorized discharge, (blockage or break; mechanical, electrical, or structural failures);	<i>Structural failure of 8-inch ductile iron pipe due to corrosion/rot.</i>
If caused by a blockage, identify the type of blockage (e.g., grease, rags, debris);	<i>NA</i>

If caused by a mechanical, electrical, or structural failure, the date of the last inspection, maintenance, or repair of the failed asset;	<i>Unknown</i>
Did the release reach any portion of the Town's Municipal Separate Storm Sewer System ("MS4").	<i>No</i>
If the release occurred to the ground, provide the location of the nearest down-gradient catch basin and the name of the receiving water to which the catch basin discharges;	<i>Liquid did not flow up to the surface toward any manholes. Sewage that was leaking, leaked back into the pump station structure, into the dry well pump room. A sump pump pumped the liquid into the wet well. The closest body of water is directly behind the pump station – Straits Pond.</i>
Did the release reach a wetland or surface water? If so, include the name and exact location where?	<i>No discharge made it to a wetland or surface body of water. During the excavation, there was no indication that there the release reached a wetland or surface water. Sampling was conducted in Straits Pond. The preliminary results are noted on the map at each of the sampling locations.</i>
Measures taken to minimize the volume and duration of the unauthorized discharge;	<i>Leakage was flowing into the station structure and nothing was evident in the surrounding area.</i>
Measures taken to clean the area where the unauthorized discharge occurred;	<i>Liquid was contained to immediate area near the building</i>
Corrective actions taken to prevent reoccurrence of unauthorized discharges at the same location;	<i>Discharge pipe was replaced from inside the building to the existing FM piping. 12 ft of new HDPE pipe was installed to replace the corrode pipe.</i>
Date of the last unauthorized discharge in the same general location;	<i>Unknown</i>



New HPDE pipe coupled to existing discharge pipe inside pump station



New 12 ft HDPE pipe section coupled to existing DI force main pipe



Failed 8-inch DI force main pipe approximately 2-3 feet out from pump room wall and under building



Leakage into pump station mid-level [looking down from top level]



Straits Pond Water Quality Sampling

Pump Station 1

Sample #3
Behind 143 Atlantic Ave
8/28/2019 10:30 AM
Fecal Coliform <10
Enterococci <10
E-Coli 20

Sample #1
Across from 38 Atlantic Ave
8/28/2019 9:15 AM
Fecal Coliform <10
Enterococci <10
E-Coli <10

Sample #2
Priscilla Rd/Eastman Rd
8/28/2019 10:00 AM
Fecal Coliform 30
Enterococci 10
E-Coli 30

Legend

- Samples
- Pump Station



0 250 500 1,000 1,500 2,000 Feet

Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

Straits Pond Water Quality Sampling

